Claims Listing

Claims 1-36 (Cancelled).

Claim 37 (Previously Presented). A method comprising the step of administering a macrocyclic

lactone, a benzolactam, a pyrrolidinone or a combination thereof to a subject in need thereof in

an amount effective to decrease soluble A β -40.

Claim 38 (Previously Presented). The method of claim 37, further comprising the step of

identifying a subject with increased soluble Aβ-40 levels compared to a control population.

Claim 39 (Previously Presented). The method of claim 37, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases mean soluble Aβ-40 by

about 35%.

Claim 40 (Previously Presented). The method of claim 37, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases the soluble Aβ-40 by

between about 8% and 50%.

Claim 41 (Previously Presented). The method of claim 38, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases mean soluble A\beta-40 by

about 35%.

Claim 42 (Previously Presented). The method of claim 38, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases the soluble Aβ-40 by

between about 8% and 50%.

Claim 43 (Previously Presented). The method of claim 37, wherein the macrocyclic lactone is a

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bryostatin class or neristatin class compound.

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Claim 44 (Previously Presented). The method of claim 43, wherein the bryostatin class compound is bryostatin-1 through bryostatin-18 or neristatin-1.

Claim 45 (Previously Presented). The method of claim 38, wherein the macrocyclic lactone is a

bryostatin class or neristatin class compound.

Claim 46 (Previously Presented). The method of claim 45, wherein the bryostatin class

compound is bryostatin-1 through bryostatin-18 or neristatin-1.

Claim 47 (Previously Presented). The method of claim 37, wherein the subject suffers from a

neurological disease or disorder.

Claim 48 (Previously Presented). The method of claim 47, wherein the neurological disease is

Alzheimer's Disease, multi-infarct dementia, the Lewy-body variant of Alzheimer's Disease

with or without association with Parkinson's disease; Creutzfeld-Jakob disease, Korsakow's

disorder, or attention deficit hyperactivity disorder.

Claim 49 (Previously Presented). The method of claim 48, wherein the neurological disease is

Alzheimer's Disease.

Claim 50 (Previously Presented). The method of claim 38, wherein the subject suffers from a

neurological disease or disorder.

Claim 51 (Previously Presented). The method of claim 50, wherein the neurological disease is

Alzheimer's Disease, multi-infarct dementia, the Lewy-body variant of Alzheimer's Disease

with or without association with Parkinson's disease; Creutzfeld-Jakob disease, Korsakow's

disorder, or attention deficit hyperactivity disorder.

Claim 52 (Previously Presented). The method of claim 51, wherein the neurological disease is

Alzheimer's Disease.

Claim 53 (Previously Presented). A method comprising the step of administering a macrocyclic

lactone, a benzolactam, a pyrrolidinone or a combination thereof to a subject in need thereof in

an amount effective to decrease soluble Aβ-42.

Claim 54 (Previously Presented). The method of claim 53, further comprising the step of

identifying a subject with increased soluble Aβ-42 levels compared to a control population.

Claim 55 (Previously Presented). The method of claim 53, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases mean soluble Aβ-42 by

about 59%.

Claim 56 (Previously Presented). The method of claim 53, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases the soluble Aβ-42 by

between about 25% and 77%.

Claim 57 (Previously Presented). The method of claim 54, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases mean soluble Aβ-42 by

about 59%.

Claim 58 (Previously Presented). The method of claim 54, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof decreases the soluble A β -42 by

between about 25% and 77%.

Claim 59 (Previously Presented). The method of claim 53, wherein the macrocyclic lactone is a

bryostatin class or neristatin class compound.

Claim 60 (Previously Presented). The method of claim 59, wherein the bryostatin class

compound is bryostatin-1 through bryostatin-18 or neristatin-1.

Claim 61 (Previously Presented). The method of claim 54, wherein the macrocyclic lactone is a

bryostatin class or neristatin class compound.

Claim 62 (Previously Presented). The method of claim 61, wherein the bryostatin class

compound is bryostatin-1 through bryostatin-18 or neristatin-1.

Claim 63 (Previously Presented). The method of claim 53, wherein the subject suffers from a

neurological disease or disorder.

Claim 64 (Previously Presented). The method of claim 63, wherein the neurological disease is

Alzheimer's Disease, multi-infarct dementia, the Lewy-body variant of Alzheimer's Disease

with or without association with Parkinson's disease; Creutzfeld-Jakob disease, Korsakow's

disorder, or attention deficit hyperactivity disorder.

Claim 65 (Previously Presented). The method of claim 64, wherein the neurological disease is

Alzheimer's Disease.

Claim 66 (Previously Presented). The method of claim 54, wherein the subject suffers from a

neurological disease or disorder.

Claim 67 (Previously Presented). The method of claim 66, wherein the neurological disease is

Alzheimer's Disease, multi-infarct dementia, the Lewy-body variant of Alzheimer's Disease

with or without association with Parkinson's disease; Creutzfeld-Jakob disease, Korsakow's

disorder, or attention deficit hyperactivity disorder.

Claim 68 (Previously Presented). The method of claim 67, wherein the neurological disease is

Alzheimer's Disease.

Claim 69 (Previously Presented). A method comprising the step of administering a macrocyclic

lactone, a benzolactam, a pyrrolidinone or a combination thereof in an amount effective to lower

total amyloid precursor protein ("APP").

Claim 70 (Previously Presented). The method of claim 69, further comprising the step of

identifying a subject with elevated APP levels compared to a control population.

Claim 71 (Previously Presented). The method of claim 69, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof lowers mean total APP by about 40%.

Claim 72 (Previously Presented). The method of claim 69, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof lowers the total APP by up to about

67%.

Claim 73 (Previously Presented). The method of claim 70, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof lowers mean total APP by about 40%.

Claim 74 (Previously Presented). The method of claim 70, wherein the macrocyclic lactone, the

benzolactam, the pyrrolidinone or the combination thereof lowers the total APP by up to about

67%.

Claim 75 (Previously Presented). The method of claim 69, wherein the macrocyclic lactone is a

bryostatin class or neristatin class compound.

Claim 76 (Previously Presented). The method of claim 75, wherein the bryostatin class

compound is bryostatin-1 through bryostatin-18 or neristatin-1.

Claim 77 (Previously Presented). The method of claim 70, wherein the macrocyclic lactone is a

bryostatin class or neristatin class compound.

Claim 78 (Previously Presented). The method of claim 77, wherein the bryostatin class

compound is bryostatin-1 through bryostatin-18 or neristatin-1.

Claim 79 (Previously Presented). The method of claim 69, wherein the subject suffers from a

neurological disease or disorder.

Claim 80 (Previously Presented). The method of claim 79, wherein the neurological disease is

Alzheimer's Disease, multi-infarct dementia, the Lewy-body variant of Alzheimer's Disease

with or without association with Parkinson's disease; Creutzfeld-Jakob disease, Korsakow's

disorder, or attention deficit hyperactivity disorder.

Claim 81 (Previously Presented). The method of claim 80, wherein the neurological disease is

Alzheimer's Disease.

Claim 82 (Previously Presented). The method of claim 70, wherein the subject suffers from a

neurological disease or disorder.

Claim 83 (Previously Presented). The method of claim 82, wherein the neurological disease is

Alzheimer's Disease, multi-infarct dementia, the Lewy-body variant of Alzheimer's Disease

with or without association with Parkinson's disease; Creutzfeld-Jakob disease, Korsakow's

disorder, or attention deficit hyperactivity disorder.

Claim 84 (Previously Presented). The method of claim 83, wherein the neurological disease is

Alzheimer's Disease.